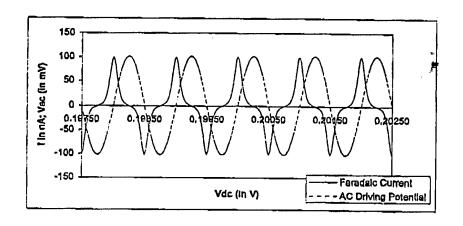
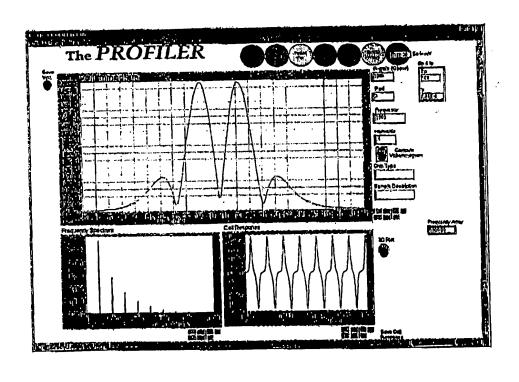
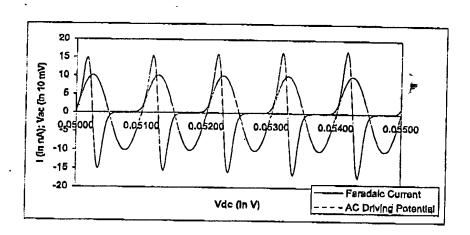


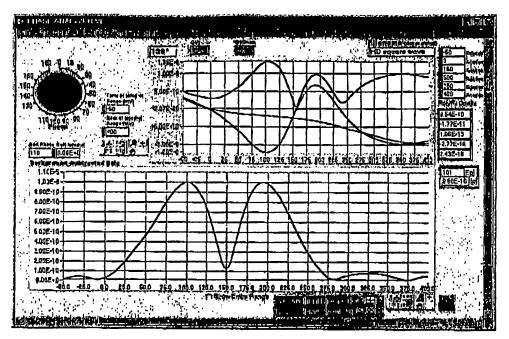
Fig 2A



7.B

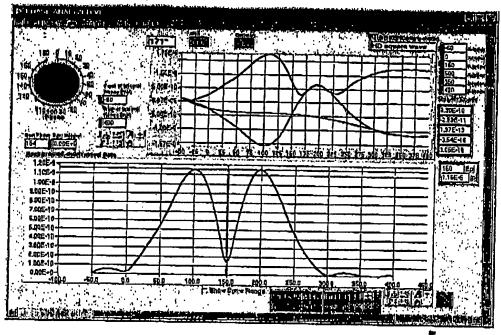




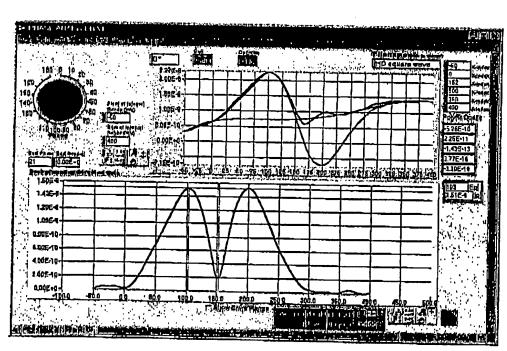


2nd harmonic SW

Fig 3A



4th harmonic SW



6th Harmonic SW

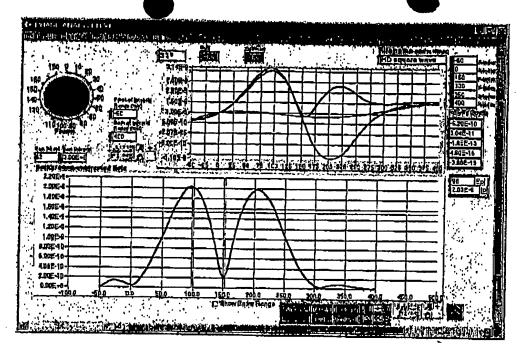
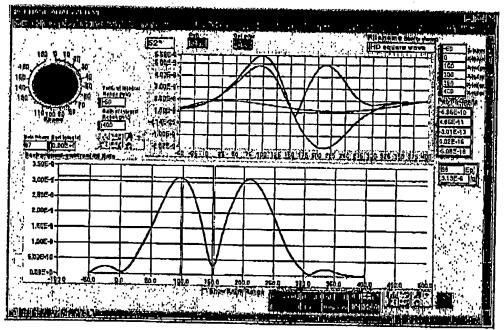
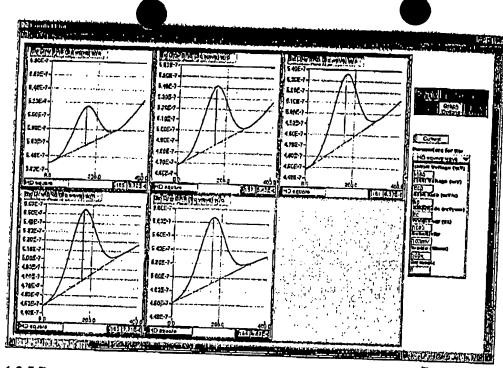


Fig 3D

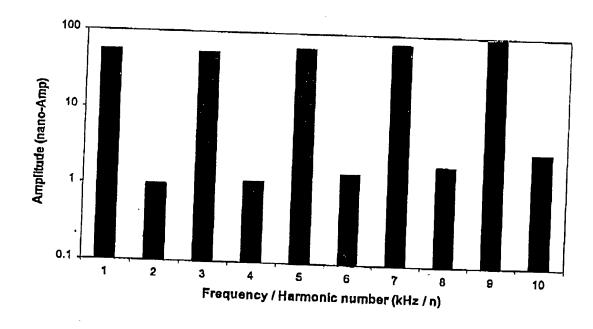
8th Harmonic SW



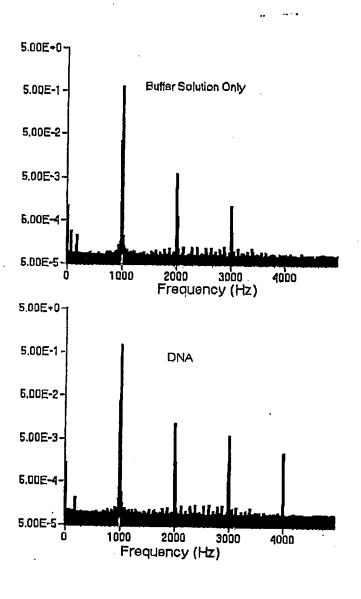
10th harmonic SW



1,3,5,7, and 9th harmonic SW



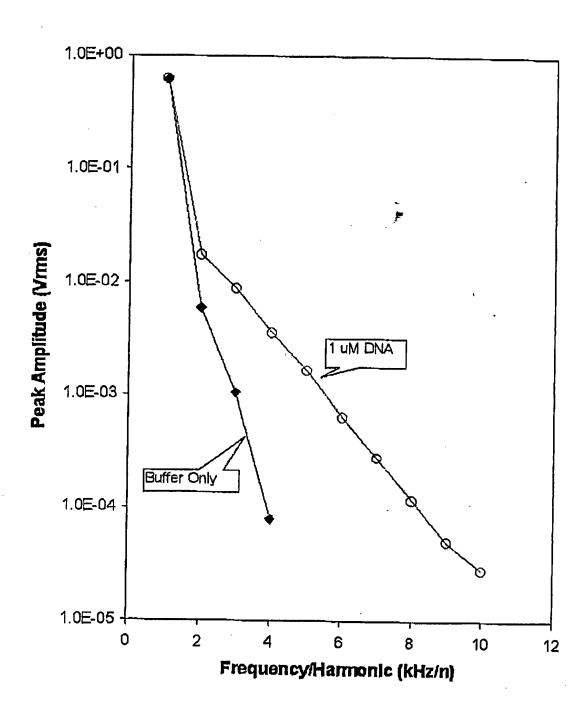
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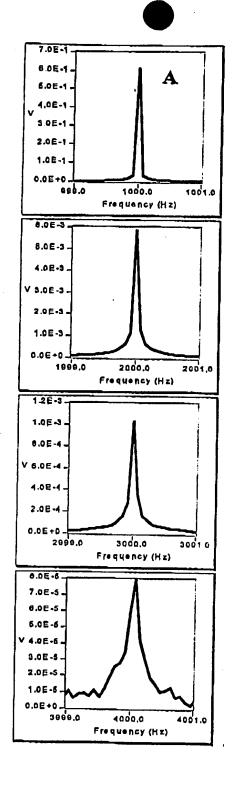


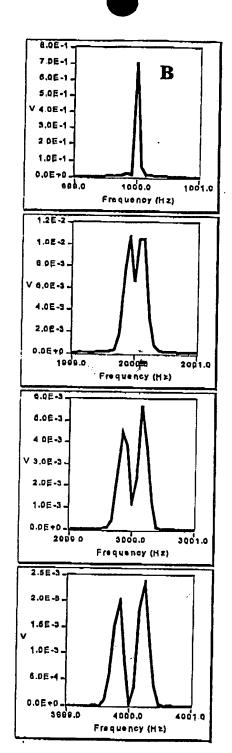
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F56

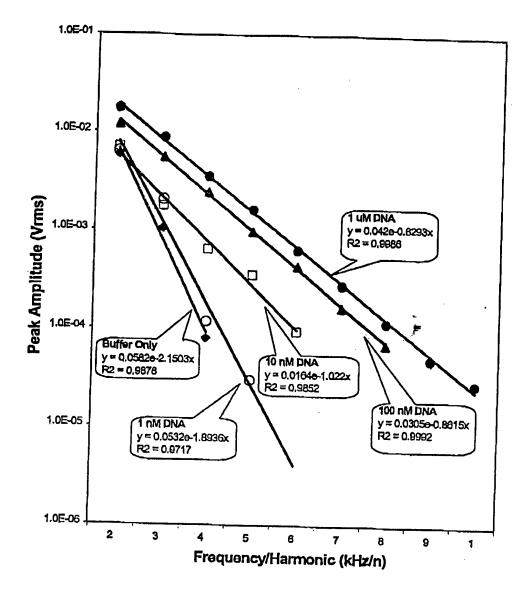
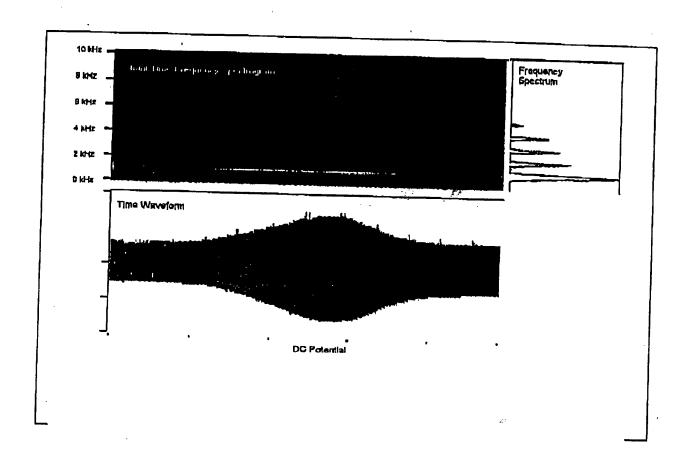


Figure 4. Results from the detection level study. The y-axis is the peak amplitude of the harmonics ($n \ge 2$) at different DNA concentration (1 μ M - 1 nM) and the x-axis is the frequency and harmonic number. Also shown are data from the buffer solution measurement.

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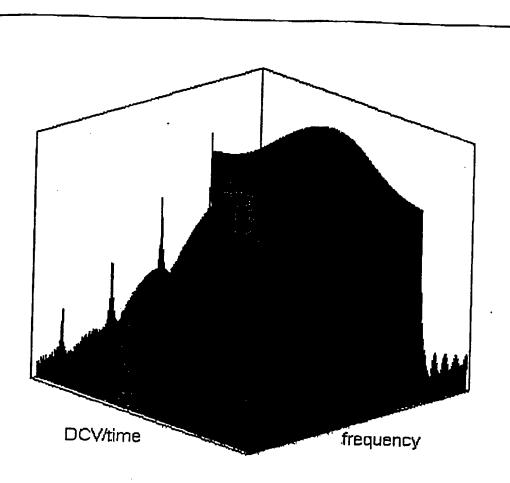


Figure 2. Three-dimensional spectrogram of an ACV scan of a CMS biochip. The amplitude of the cell current is plotted on a log scale to emphasize the higher harmonics. The spectrogram clearly shows the familiar first and fourth harmonic voltammograms. All without a funed or lock-in ampl. More importantly, other harmonics are also present in the spectrogram.

Fg 9

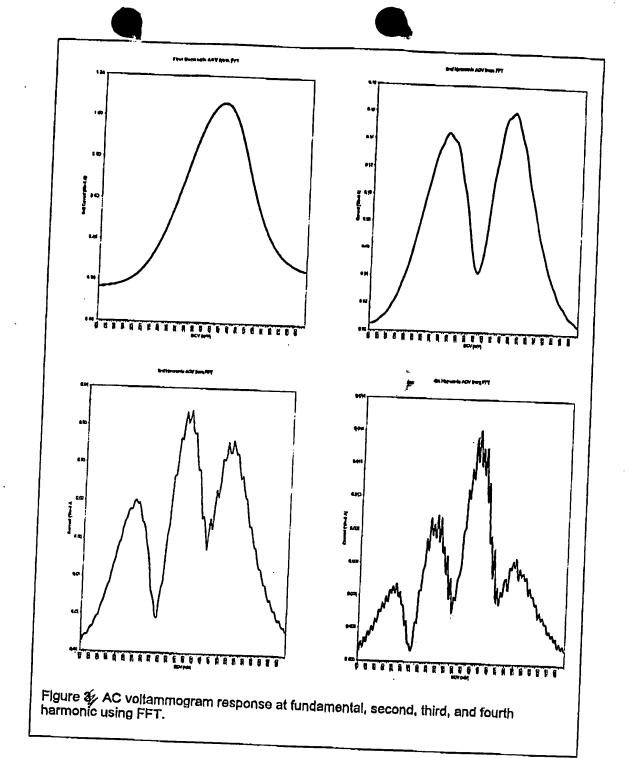


Fig 10